

Upper Columbia Lake, North End.—About seven and a half miles north of the north end of Upper Columbia Lake is located a thermal spring, the water of which afforded (Geol. Surv. Rep. II, 1886, p. 15 T) the following result :

Potassium.....trace	Sulphuric Acidvery large quantity
Soda.....rather small quantity	Carbonic acid.....“ “ “
Lithia.....trace	Silicatrace
Baryta.....“	Chlorine.....fairly large quantity
Strontia.....very small quantity	Organic matter...small quantity
Lime.....“ large “	In 1000 parts of water, dried
Magnesium.....large quantity	at 180 °C.....2.177
Ferrous oxide.....trace	Specific gravity at 15.5° C.....1001.48

Dr. G. M. Dawson, who collected the specimen, states that the discharge is not less than 20 gallons per minute, and that the temperature at the hottest point was 112°F.

Vermillion Pass.—Dr. G. M. Dawson reports several chalybeate springs which flow out through the gravel on the river flats about 6 miles west of the summit and near the place alluded to in his report as “the bend.” He states that the springs are copious and of such a character as to suggest their use medicinally.—*Vide* Geol. Surv. Rep. I, 1885, p. 120 B.

Many thermal and other springs are, of course, known locally in British Columbia, but no data are available. Of some, however, although no analyses are at hand, the following notes by Dr. G. M. Dawson in his “Report on the Mineral Wealth of British Columbia Geol. Surv. Rep. III, 1887-88, 162 R. may not prove uninteresting.

“*Admiralty Island.*—Salt spring. According to analysis quoted by Pemberton in the place above cited (Nanaimo). The spring contains 65 parts of saline matter to 1,000, but with more impurities than the last (Nanaimo).”

“*Near Liloot River.*—about five miles from head of Harrison Lake. Hot springs known as St. Agnes’s Well; no particulars.”

“*Sinclair Pass*—Rocky Mountains, Hot Springs, on south side of Berland’s Brook, near the point at which it issues from the mountains into the Upper Columbia valley. Three springs reported, and said to be copious. Mr. John McKay, who discovered these springs, states the temperature of one as 118° F.”

“*Elk River Valley.*—Rocky Mountains, about lat. 50°7; warm sulphur spring reported on east side of river, by Mr. H. M. Hatfield.”